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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,830	02/17/2004	Richard C. Younce	2376.2136-002	9150
57690 7590 11/27/2007 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD P.O. BOX 9133 CONCORD, MA 01742-9133			EXAMINER	
			SINGH, RAMNANDAN P	
			ART UNIT	PAPER NUMBER
,		2614		
			MAIL DATE	DELIVERY MODE
		11/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,		Application No.	Applicant(s)				
Office Action Summary		10/779,830	YOUNCE ET AL.				
		Examiner	Art Unit				
	·	Ramnandan Singh	2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRICT OF THE MAILIN	ATE OF THIS COMMUNICATION (136(a)). In no event, however, may a reply be twill apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status	·						
2a)⊠	1) Responsive to communication(s) filed on <u>27 August 2007</u> . 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 14-44 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 14-44 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers		•				
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is c	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
12) □ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been recei uu (PCT Rule 17.2(a)).	ation No ved in this National Stage				
Attachmer	nt(s)	_					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date (i) Sep 20, 2007 and (ii) Oct 17, 2007.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:					

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because Figures 5 and 7 do not show the legends explaining the reference numerals used in the figures [See MPEP 608.02(V)].
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Claim 14 recites the limitations "based on an occurrence of a <u>first predetermined condition</u>" in line 4, and "based on an occurrence of a <u>second predetermined condition</u>" in line 7. A similar thing holds for claims 17-21 and 24-27. Therefore, since claims 14-27 are method claims, these features must be shown in a flow chart or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure

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is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities:

Applicants should provide the status of each copending applications cited on pages 1, 17, 21 and 25 of the specification.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 14-44 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 14 recites the limitations "based on an occurrence of a first predetermined condition" in line 4, and "based on an occurrence of a second predetermined condition" in line 7. The disclosure does not support "first predetermined condition" and "second predetermined condition". A similar thing holds for claim 21. Further, claim 28 recites the limitations "first energy level" in line 2 and "second energy level" in line 4. The disclosure does not support "first energy level" and "second energy level". Claims 15-20, 36-38, 41-43 being dependent from claim 14, claims 22-27, 39-40, 44 being dependent from claim 21, and 29-35 being dependent from claim 28 are also rejected.

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In addition, claim 36 recites the limitation "adjusting speed of convergence" in line 1. The disclosure does not support this limitation.

A similar thing holds for claims 37-41.

Double Patenting

6. With the approval of the Terminal disclaimer, the obviousnesstype double patenting rejection is withdrawn.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the

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Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rammandan Singh Primary Examiner Art Unit 2614

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